



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
CINCINNATI PROCUREMENT OPERATIONS DIVISION  
CINCINNATI, OHIO 45268

SUBJECT: Request for Task Order Proposal, Tracking Number PR-R3-18-00341 (2018-19)

FROM: Angela Lower  
Contracting Officer

TO: Multiple Award Contract Holders under TSAWP II

Attached is request for task order proposal for the subject tracking number which is issued for competition for the project entitled, "Technical Support for Water Quality Monitoring in Kentucky Tributaries to the Tug Fork River for Ionic Toxicity TMDL Development".

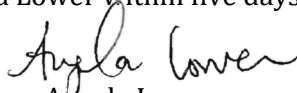
The government requests you prepare a proposal (price and technical) for the task order. Request the proposals be submitted to Angela Lower at **lower.angela@epa.gov** by **Tuesday, September 4, 2018 at Noon EST**. The technical proposal is limited to 10 pages. A firm fixed price to be paid shall be provided in the contractor's cover letter to the Task Order Proposal. The price proposals shall break out the price per task and provide a total overall price for the entire effort. Proposals shall also include the required conflict of interest certification.

The following documents provided for this solicitation will become part of the Task Order Award:

- Performance Work Statement
- Task Order Clauses

Award of a **Firm Fixed Price** task order will result. The period of performance for this Task Order is anticipated to be 10/01/2018-10/31/2019. Please see attached technical evaluation criteria which will be used to evaluate the offer. Award will be made on the basis of Lowest Price, Technically Acceptable.

Any questions should be directed to Angela Lower within five days of issuance of this Solicitation.

  
Angela Lower  
Contracting Officer

08/13/2018

Cc:  
Cheryl Atkinson, Contracting Officer's Representative  
Jen Sincock, Alternate Contracting Officer's Representative  
Lisa Mitchell-Flinn, Contract Specialist

Attachments:  
Technical Evaluation Criteria  
PWS  
Task Order Clauses

**PERFORMANCE WORK STATEMENT  
TSAWP MULTIPLE AWARD CONTRACT TASK ORDER  
PR-R3-18-00341**

**A. TITLE: Technical Support for Water Quality Monitoring in Kentucky Tributaries to the Tug Fork River for Ionic Toxicity TMDL Development**

**B. OBJECTIVES AND BACKGROUND**

**Objectives**

The purpose of this Performance Work Statement (PWS) is to support possible ionic toxicity Total Maximum Daily Loads (TMDL) development within the Tug Fork River watershed by monitoring water quality on Kentucky tributaries to the Tug Fork River. This will support TMDL development for West Virginia waterbodies where ionic toxicity has been identified as a contributing cause of biological impairment. Specifics of each task and the accompanying deliverables are discussed in the Section C.

**Background on West Virginia Ionic Toxicity TMDLs**

To establish a TMDL for waterbodies identified as biologically impaired on West Virginia's Section 303(d) list, the West Virginia Department of Environmental Protection (WVDEP) identifies the causes of the biological impairment, *i.e.*, the type of pollutant(s) that will be allocated in the TMDL(s) to address the biological impairment, through a stressor identification procedure completed during the TMDL development phase. In the course of working on previous TMDLs, WVDEP identified certain waters as biologically impaired due to ionic toxicity. Ionic toxicity results from the presence of excessive amounts of dissolved solids (e.g., mineral salts) in a waterbody and can cause biologic impairment by adversely impacting aquatic life. While WVDEP has historically had sufficient information regarding instream ionic toxicity levels and their effects on benthic macroinvertebrates to identify ionic toxicity as a cause of biological impairment in these waters, it lacked sufficient information about which particular dissolved solid(s) (e.g., chlorides, sulfates, potassium, magnesium, etc.) caused the ionic stress, and their associated impairment thresholds and their sources, to establish a defensible TMDL. In the fall of 2010, EPA and WVDEP began a project to develop a pilot TMDL for ionic toxicity in streams in the Upper Kanawha Watershed. EPA and WVDEP collaborated on workgroups focused on TMDL planning, endpoint development, model development, and treatment technology. During the pilot project, a TMDL endpoint was proposed for specific conductivity and a model was developed. WVDEP ended participation in the pilot project in April 2012, citing state legislation that required the development of new assessment methodology to determine biological impairment. Since that time, WVDEP has developed hundreds of pollutant TMDLs that address biological impairment caused by stressors other than ionic toxicity. EPA Region III and WVDEP entered into a Memorandum of Agreement (MOA) on June 13, 2017 in which WVDEP acknowledged its responsibility to establish TMDLs for biologically impaired waters and agreed to a schedule to establish by no later than June 30, 2026, TMDLs for 467 of the 573 waters at issue in the ongoing litigation *Ohio Valley Environmental Coalition (OVEC), et al. v. Pruitt, et al.*, Case No. 3:15-cv-00271 (S.D. W.Va. February 14, 2017). The

MOA establishes a shorter term schedule to develop TMDLs on 150 biologically impaired waters by December 31, 2021 and a longer term schedule to develop TMDLs on 317 biologically-impaired waters by June 30, 2026 (including ionic toxicity impairments on 187 of these waters). In the event WVDEP does not submit TMDLs in accordance with the MOA schedule, EPA will be obligated to establish those TMDLs.

## **C. TASKS**

The contractor shall provide support for the below tasks. Written technical direction shall be utilized to provide further detail on specific work included in the PWS, provide guidance, or approve or comment on deliverables. The Task Order Contracting Officer Representative (TOCOR), the Alternate TOCOR (if the TOCOR is on leave or travel), and the Contracting Officer are the only individuals authorized to issue technical direction. The contractor shall anticipate working with the TOCOR, staff leads from EPA Water Protection Division (WPD) and WVDEP to furnish the requested technical assistance. **However only the TOCOR may issue written technical direction.**

### **Task 1: Kickoff Meeting, Reporting, and Communication**

The contractor shall participate in a Kickoff Meeting with the TOCOR either in person or via conference call to discuss the following: points of contact, roles and responsibilities, timelines, the schedule of benchmarks, milestones and deliverables, establish dates and times for monthly calls, monthly technical progress reports, and general Task Order administrative information. The technical progress reports shall include status updates of all of the tasks of this PWS.

The TOCOR will coordinate and set-up monthly working calls between EPA staff and the contractor's technical lead to discuss the status and progress of the work under this Task Order. The contractor shall participate in these monthly calls. The frequency of the monthly conference calls may be modified based on project status at the request of the contractor and only as approved by EPA.

The contractor shall notify the TOCOR of any problems, delays or questions as soon as they arise, including immediate written notification of any Task Order delays. The contractor shall provide a written monthly status report in accordance with contract requirements which shall be used for invoice review purposes. All reporting shall be provided in accordance with the PWS Sections E and F.

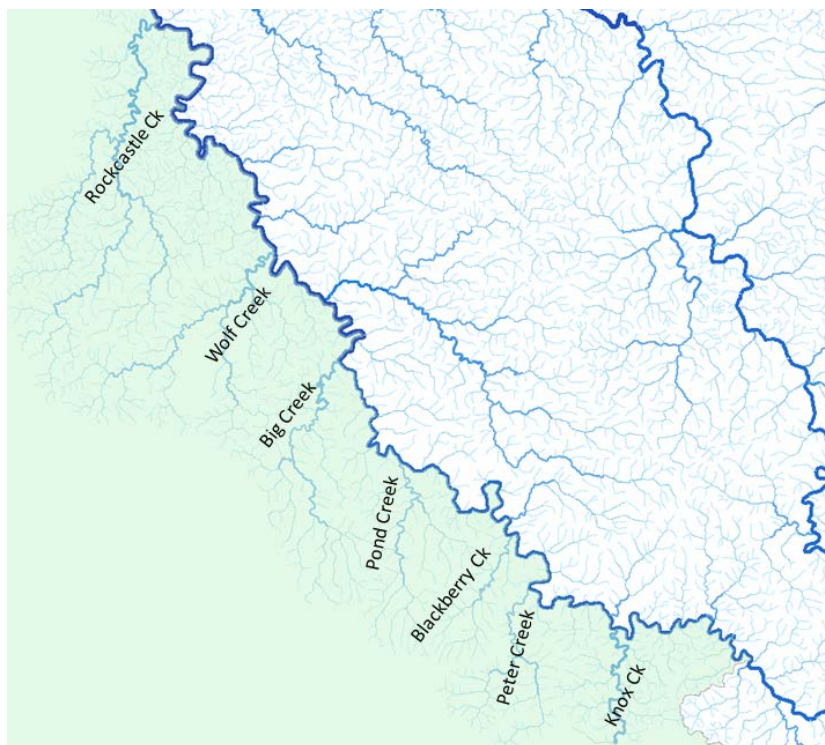
In general, written materials including meeting summaries shall be furnished by the contractor within five business days after request in draft form for the TOCOR to review; then a final written deliverable would be expected within five business days after receipt of written technical direction from the TOCOR, including the TOCOR's comments and edits to the draft deliverable.

Task 1 Deliverables: Meeting summaries following conference calls

## **Task 2: Water Quality Monitoring in Kentucky Tributaries to the Tug Fork River**

To support possible ionic toxicity TMDL development within the Tug Fork River watershed, the contractor shall monitor and analyze water quality samples from seven (7) tributaries to the Tug Fork River located within Kentucky. Monthly monitoring rounds must occur within the proposed model calibration period from July 1, 2018 to June 30, 2019. Monitoring and laboratory analyses shall be conducted in accordance with an EPA approved Quality Assurance Project Plan (QAPP) that follows WVDEP's QAPP and standard operating procedures (SOPs) to ensure data quality sufficient for use in assessment decisions and model development. All water quality samples must be analyzed by a laboratory that has been approved through the WVDEP laboratory Quality Assurance Program, as described in the SOP. It is anticipated that each monitoring round could take up to two days of field work. An effort should be made to collect grab samples to represent conditions at all hydrologic flow conditions (baseflow to average to high flow conditions). Monitoring shall occur at one monitoring station for each of the Tug Fork River tributaries located in Kentucky listed below. The monitoring stations should be established upstream of the confluence to avoid influence from backwater from the Tug Fork River, in the nearest riffle area available and reasonably accessible. The locations for the monitoring stations will be discussed and approved in the Kickoff Meeting, described in Task 1. Monitoring stations may be adjusted only upon approval by the TO COR through written technical direction.

- Rockcastle Creek
- Wolf Creek (at Lovely)
- Big Creek (at Nolan)
- Pond Creek (at Goody)
- Blackberry Creek
- Peter Creek
- Knox Creek



Field or laboratory analyses shall be performed for the following parameters:

Parameter	Units	Field/Lab	Tributaries	Notes
Temperature	Deg C	Field	7	
DO	mg/l	Field	7	
pH	S.U.	Field	7	
Specific Conductivity	umhos/cm	Field	7	If suspected field equipment failure, may rely on laboratory analysis
Flow Discharge	cfs	Field	7	
Fecal coliform	Colonies/100 ml	Lab	7	Requires analyses within 24-hour holding period*
TSS	mg/l	Lab	7	
TDS	mg/l	Lab	7	
Acidity (hot)	mg/l	Lab	7	
Alkalinity	mg/l	Lab	7	
Chloride	mg/l	Lab	7	
Sulfate	mg/l	Lab	7	
Al (Tot)	mg/l	Lab	7	
Al (Dis)	mg/l	Lab	7	
Fe (Tot)	mg/l	Lab	7	
Fe (Dis)	mg/l	Lab	7	
Mg (Tot)	mg/l	Lab	7	
Ca (Tot)	mg/l	Lab	7	
K (Tot)	mg/l	Lab	7	
Na (Tot)	mg/l	Lab	7	
Mn (Tot)	mg/l	Lab	3	Required only on Wolf Creek, Pond Creek and Blackberry Creek

Note(s): \* Fecal coliform analyses need to be performed within a 24-hour holding time to be considered by WVDEP for assessment purposes.

Laboratory analytical data shall be submitted in an electronic spreadsheet according to a template to facilitate uploading to WVDEP's Watershed Assessment Branch (WAB) database. Electronic data will be transferred directly from the analytical laboratory's Laboratory Information Management System (LIMS) using WVDEP's template. This template will be provided to the contractor by EPA TO COR and discussed during the kick-off meeting.

**Task 2 Deliverables:** Monitoring and analytical results for seven Kentucky tributaries to the Tug Fork River collected during monthly monitoring rounds occurring from the time of award through June 30, 2019. Analytical results are expected within 30 days of each monitoring round.

### **Task 3: Quality Assurance Reporting**

Monthly progress reports shall include Statements of Quality Assurance Progress documenting

that the QAPP and SOPs required in Task 2 are being followed. The contractor shall also furnish a Quality Assurance Report (QAR) for review and acceptance by the TOCOR. This report is intended to be a post-effort reporting to the EPA, which documents the contractor's QA/QC of the technical effort to produce a defensible deliverable. The contractor shall follow a format for preparing the QAR which will be specified by the TOCOR during the kickoff meeting in Task 1.

**Task 3 Deliverables:**

Deliverable 3.1 – Monthly Statements of Quality Assurance Progress within the technical progress reports

Deliverable 3.2 – Quality Assurance Report (QAR) to be provided once all work in Task 2 has been completed.

**D. SCHEDULE OF BENCHMARKS AND DELIVERABLES**

All deliverables developed under this Task Order must be provided to the TOCOR in an electronic format supported by EPA and WVDEP. Laboratory analytical results shall be directly transferred from the laboratory's LIMS as discussed in Task 2. Reports must be of high quality. Work must reflect a high level of technical proficiency and be clearly explained and documented.

As a general rule, upon receipt of a draft deliverable, EPA will have three weeks to collate internal and external comments and return to the contractor. The contractor shall then have an additional one week to make changes, which will be reviewed by EPA. EPA will have one week to indicate any necessary final adjustments. If final adjustments are needed, the contractor shall have three additional business days to finalize the document.

The deliverables and anticipated completion dates are as follows:

Task	Deliverables	Task Completion Timeframe	Task Finalization
Task 1 – Initiate project kickoff conference call	Deliverable 1: Meeting summary	Within 7 days of contract award	1 week after draft submittal
Task 2 – Water Quality Monitoring in KY Tributaries of Tug Fork River	Deliverable 2: Monthly monitoring and analytical results	Within 1 week of completion of Task 1 and then monthly through June 30, 2019 to ensure monitoring rounds occur within the proposed model calibration period from July 1, 2018 to June 30, 2019. Analytical results are expected within 30 days of each monitoring round.	Within 4 weeks after data submittal
Task 3 – Quality Assurance Reporting	Deliverable 3.1: Monthly Statements of Quality Assurance Progress	Within 1 week of completion of Task 1 and then monthly until Task 2 is complete	Within 1 month of Task 2 completion

Task	Deliverables	Task Completion Timeframe	Task Finalization
	Deliverable 3.2: Quality Assurance Report	Within 1 week of completion of Task 2	Within 6 weeks of completion of Task 2

## E. REPORTING

All documentation and reporting under this Task Order shall be in compliance with contract requirements.

## F. DELIVERABLES AND GENERAL PERFORMANCE

The contractor shall participate in meetings and conference calls arranged by the EPA TOCOR. The contractor shall, when requested by the TOCOR, provide supporting documentation when EPA is reviewing draft deliverables to facilitate EPA review and approval of the contractor's work. Documentation shall include the electronic files and detailed, written explanation of all steps and decisions. The contractor is expected to comply with this request when it is received from the TOCOR regardless of whether such a request is described in the individual tasks of this PWS. The contractor is expected to furnish this information in such a manner that no proprietary software will be needed for EPA to read, interpret, replicate or model any work product of this agreement, unless otherwise noted in this PWS or by written permission of the EPA TOCOR. The objective is that anyone with the appropriate skill level can use the information produced under this Task Order to check or duplicate the contractor's work for replication and/or verification. With this understanding of how this Task Order's data will be used, any elements essential to successfully replicating analysis shall be provided to EPA in a commonly-used format.

The contractor shall provide to the TOCOR written evidence of the contractor's scientific/technical and editorial review on any Task Order **draft** product before submission to the EPA TOCOR for review. This process does not need to be performed by an independent peer reviewer. It is expected that all editorial review comments shall be addressed before deliverables are furnished to the EPA TOCOR for review (in the case of draft deliverables) or acceptance (in the case of final deliverables); and that questions raised by scientific/ technical review will be either addressed or discussed with the EPA TOCOR prior to the contractor furnishing draft deliverables.

All deliverables (draft and final) to EPA shall be furnished in an electronic format that EPA can support (see TSAWP Contract PWS Section 4.0 Deliverables). All final deliverables shall be prepared according to EPA publication guidelines and shall be compliant with Section 508 of the Americans with Disabilities Act.

All draft and final deliverables from the contractor under this PWS are potentially subject to Freedom of Information Act requests.

**All submittals** to EPA shall be formatted as described below:

- Any written reports, summaries or analysis documents shall be in electronic Microsoft Word©.
- Any and all spreadsheets, raw data, coding and modeling work (including all model runs with essential data to replicate model runs) shall be in electronic Microsoft Excel© or XML formats.
- All analytical data will be transferred directly from the laboratory's LIMS in the approved according to the spreadsheet template (as described in Task 2).

Appropriate electronic format that is supported by EPA and printing of all GIS data layers, maps, photos, bench sheets and other written material not easily printed or saved in the above formats will be discussed and a format agreed upon with the EPA TOCOR prior to submittal by the contractor.

## **G. ANTICIPATED TRAVEL**

All travel under this Task Order shall be in compliance with contract requirements and only according to specific written Technical Direction from the TOCOR. (See contract clause "Approval of Contractor Travel"). The vast majority of interactions between EPA and the contractor will be conducted through conference calls. When in-person meetings are required, the length of the meetings and the amount of contract personnel needed for each trip will be provided to the contractor through written technical direction from the TOCOR.

In addition, Task 2 describes water quality monitoring to support possible ionic toxicity TMDL development within the Tug Fork River watershed. This will require travel for up to two contractors to complete water quality monitoring and collection of water quality samples from seven (7) monitoring sites in seven (7) tributaries to the Tug Fork River located within Kentucky. No less than six (6) and up to ten (10) monthly monitoring rounds must occur within the proposed model calibration period from July 1, 2018 to June 30, 2019. Each monthly monitoring round is anticipated to require up to two (2) days of field work to complete. It is anticipated that contractors would use federal per diem rates for Kentucky and West Virginia.

## **H. CONTRACTOR IDENTIFICATION**

Contractor personnel shall always identify themselves as Contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency's official representative.

The Contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the EPA TOCOR.

## **I. MEETING GUIDELINES AND LIMITATIONS:**

With the exception of the travel required in Task 2 and described in Section G above, travel is not anticipated to be routine under this contract. EPA expects that the majority of the dollars to go toward the development of the technical documents water quality monitoring and laboratory analytical costs. EPA projects that none of the individual meetings identified in these tasks will



exceed a total cost of \$1,000 with total travel not to exceed \$5,000 \$6,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOCOR of any anticipated individual event which meets the definition of a “conference,” with total net expenditures anticipated to be greater than \$20,000.

A **"conference" or "conference-related activity"** is an internal or external meeting, retreat, seminar, symposium or event that involves expenses from the following categories: attendee travel paid for by the EPA; training activities; or EPA hosted or co-hosted, sponsored or co-sponsored events incurring speaker fees, food and refreshment expenses, non-federal facility expenses, audio visual expenses and/or contract related conference expenses. **"Conference expenses"** are all direct and indirect conference costs paid by the government, whether paid directly by agencies or reimbursed by agencies to travelers or others associated with the conference, but do not include funds paid under federal grants to grantees. Conference expenses include any associated authorized travel and per diem expenses, hire of rooms for official business, audiovisual use, light refreshments, registration fees, ground transportation, and other expenses as defined by the Federal Travel Regulation. All outlays for conference preparation and planning should be included. The FTR provides some examples of direct and indirect conference costs included within conference expenses. After notifying EPA of the potential to reach this threshold, the contractor shall not proceed with the task(s) until authorized to do so by the Contracting Officer.

**J. QUALITY ASSURANCE SURVEILLANCE PLAN:** Per contract requirements as supplemented herein:

EPA anticipates that the contractor’s work shall be judged “satisfactory” according to the QASP if the TOCOR’s edits to deliverables are no more than ten percent (10%) of the content of any draft deliverable, or less than two percent (2%) of any final deliverable. In addition, EPA anticipates that the Contractor’s work will be judged “satisfactory” according to the QASP if less than ten percent (10%) of the pages of written final deliverables contain the TOCOR’s edits for such things as grammar, punctuation and format. The EPA TOCOR can upon request furnish a copy of the EPA correspondence manual for the contractor’s use.

#### **K. VALIDATION OF SECTION 508 COMPLIANCE OF TASK ORDER DELIVERABLES**

The Contractor shall support the TOCOR in conducting a “Final Deliverable Validation” to ensure compliance with Section 508 and the Federal Acquisition Regulations (FAR) related to “electronic and information technology (EIT) deliverables”. The Contractor shall furnish certification, in writing, to the TOCOR that the Contractor has complied with EPAAR Clause 1552.211-79 “Compliance with EPA Policies for Information Resources Management”, including the requirement that all electronic and information technology (EIT) deliverables be Section 508 compliant in accordance with the policies referenced at <http://www.epa.gov/accessibility/>.

#### **L. REFERENCES**

**Links to background documents relevant to this PWS:**

U.S. EPA. 2011. A Field-Based Aquatic Life Benchmark for Conductivity in Central Appalachian Streams. Office of Research and Development, National Center for Environmental Assessment, Washington, DC. EPA/600/R-10/023F.

<https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=233809>

U.S. EPA. 2011. The Effects of Mountaintop Mines and Valley Fills on Aquatic Ecosystems of the Central Appalachian Coalfields (2011 Final). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-09/138F, 2011.

<https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=225743>

U.S. EPA. 2016. Draft Field-Based Methods for Developing Aquatic Life Criteria for Specific Conductivity. Office of Water, Washington, DC. EPA-822-R-07-010.

<https://www.epa.gov/wqc/draft-field-based-methods-developing-aquatic-life-criteria-specific-conductivity>

**M. GOVERNMENT FURNISHED INFORMATION**

The following information can be provided to the contractors by request:

- Memorandum of Agreement Between WVDEP and EPA Regarding Submission of TMDLs for Biologically Impaired Waters Pursuant to Section 303(d) of the Clean Water Act, 33 U.S.C. § 1313(d)
- WVDEP's Draft Watershed Assessment Branch 2018 Field Sampling Standard Operating Procedures, revised June 7, 2018
- WVDEP's Draft Watershed Assessment Branch Quality Assurance Project Plan, revised May 24, 2018

**EPA-F-12-101 PERIOD OF PERFORMANCE**

The period of performance of this contract shall be from **TBD** through **TBD** inclusive of all required reports.

**EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES**

Task Order Contracting Officers Representatives (TOCORs) for this contract are as follows:

Cheryl Atkinson; atkinson.cheryl@epa.gov; 215-814-3392

Jennifer Sincock; sincock.jennifer@epa.gov; 215-814-5766

Contracting Officials responsible for administering this contract are as follows:

Angela Lower; lower.angela@epa.gov; 513-487-2036

Lisa Mitchell-Flinn; mitchell-flinn.lisa@epa.gov; 513-487-2852

**TASK ORDER SOLICITATION PR-R3-18-00341**  
**TECHNICAL EVALUATION CRITERIA**  
**Water Quality Monitoring in Kentucky Tributaries to the Tug Fork River for Ionic Toxicity TMDL Development**

Contractors shall limit their responses to 10 pages or less, using their discretion on which criteria to place emphasis. Proposals will be evaluated on the criteria listed below by the project Technical Evaluation Team on a pass/fail basis. Award will be based on selection of the technically acceptable proposal with the lowest evaluated price.

<b>Element</b>	<b>Acceptability</b>	<b>Pass</b>	<b>Fail</b>
1. Experience in field and laboratory analyses of stream water samples.	<p>A. Demonstrated experience in providing technical support for field collection and laboratory analyses of stream water samples for water quality studies including providing sampling and field analysis equipment following project specific Quality Assurance Project Plans (QAPPs) and State monitoring Standard Operating Procedures (SOPs); Use of related stream sampling equipment including calibration, testing, repairing, modifying and operation of equipment;</p> <p>B. Demonstrated experience in survey planning including personnel and logistics planning, providing equipment and supplies; and laboratory analyses.</p> <p>C. Demonstrated experience in providing laboratory analytical results according to EPA or state requirements including direct electronic data transfer from Laboratory Information Management Systems (LIMS).</p> <p>D. The offeror shall demonstrate collective experience with a minimum of two projects that are similar in technical scope, size and complexity to that specified in the PWS.</p>		
2. Key Personnel and equipment	<p>A. Offeror's must demonstrate that appropriate personnel and equipment will be positioned efficiently to carry out the requirements in the PWS. Specifically demonstrating the ability to start work with qualified staff and monitoring equipment under a resultant task order immediately upon</p>		

	award.		
	B. The offeror shall demonstrate that its Program Manager has experience with the management of project(s) of a similar technical scope, size and complexity to that specified in the PWS.		